

# **COLOUR TELEVISION**

## AV-21WMG5

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**INSTRUCTIONS** 

Thank you for buying this JVC colour television.

To make sure you understand how to use your new TV, please read this manual throughly before you begin.

## **Safety Instructions**

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS

APPLIANCE TO RAIN OR MOISTURE.

CAUTION: TO ENSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING

**RULES REGARDING THE USE OF THIS TV.** 

1 Operate only from the power source indicated on the rear of the TV.

2 Avoid damaging the power cord and mains plug. When unplugging the TV, grasp the mains plug. Do not pull on the power cord.

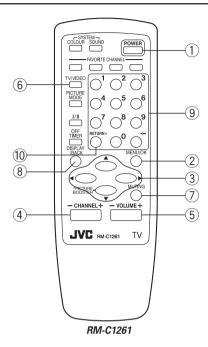
- 3 Never block or cover the cabinet ventilation openings. Never install the TV where good ventilation is unattainable. When installing this TV, leave spaces for ventilation around the TV more than the minimum distances as shown in the diagram.
  - 15 cm + 10 cm + 15 cm
- 4 Do not allow objects or liquid into the cabinet openings.
- 5 In the event of a fault, unplug the unit and call a JVC service technician. Do not attempt to repair it yourself or remove the rear cover.
- 6 The surface of the TV screen is easily damaged. Be very careful with it when handling the TV. Should the TV screen become soiled, wipe it with a soft dry cloth. Never rub it forcefully. Never use any cleaner or detergent on it.
- 7 If you are not going to use this TV for a long period of time, be sure to disconnect the AC plug from the AC socket.
- 8 The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

## **Knowing your TV's functions**

#### Main features

Function	Description
Favorite CH (Channel)	You can register up to four favorite channels for quick re-call with one-press.
Al Volume	TV adjusts automatically the volume to the same level for all TV channels to avoid sudden change of the volume when selecting different TV channel.
VNR	You can reduce the picture noise when viewing noisy TV programmes or video sources.
White balance	You can choose one of three tones of white to match to the video source such as movie, sports, etc. Changing White balance affects the appearance of all other colours on the screen.
Child lock	To prevent accidental operation by your children, you can disable the control buttons on the TV.

# **Remote control buttons and basic functions**



No	. Press	То
1	POWER	Turn on or off the TV from standby mode.
2	MENU/OK	Display menu and confirm selected function.
3	<b>▲/▼/⋖/</b> ►	Select and adjust menu function.
4	CHANNEL -/+	Select the desired channel number.
(5)	VOLUME -/+	Adjust the volume level.
6	TV/VIDEO	Select TV or VIDEO terminal input.
7	MUTING	Turn off the volume. Press this button again to resume the volume.
8	DISPLAY	Display the programme number or video terminal number and PR list (channel
	/BACK	list) on the screen. You can select the channel using the PR list.
		1 Press the DISPLAY button once to display the PR list.
		2 Press ▲/▼/◄/► button to choose a channel, then press the MENU/OK button.
		You can confirm the favorite channels in the PR list. The channels set to favorite
		channels are indicated with coloured mark.
		On the other hand, you can use this button to return to the previous menu.
9	0~9, -/	Select the programme number. For two digits programme number, press -/,
		then press the number button.
10	RETURN+	a) Return to the frequently view channel with one touch.
		1 Choose the channel you want to register.
		2 Press and hold RETURN+ button until "RETURN PLUS PROGRAMMED!"
		appears.
		To cancel, press and hold RETURN+ button until "RETURN PLUS CANCELED!"
		appears.
		b) Return to the previously viewed channel, if you have not set or have
		cancelled the Return channel as above.

#### Remote control buttons and basic functions

#### How to operate menus and menu locations

то	Operation	Note
Display the MENU.	Press the MENU/OK button ②.	To exit the MENU, press the DISPLAY/BACK button* ® or choose EXIT menu.
Display the top menu.	Press ▲/▼ buttons ③ to choose a menu title. Then press MENU/OK button ②.	Press ▼ button ③ to display the next page for more functions.
Display the 2nd menu.	Press ▲/▼ buttons ③ to choose a menu title. Then press MENU/OK button ②.	
Display the 3rd menu.	Press ▲/▼ buttons ③ to choose a menu title. Then press MENU/OK button ②.	
Return to the previous menu.	Press the DISPLAY/BACK button* ®.	-
Choose the setting of a function.	Press ▲/▼ buttons ③ to choose a function. Then press the ◄/► buttons ③ to change the setting.	Press the MENU/OK button ② to exit from the menu.
Adjust the effect level of a function.	Press ▲/▼ buttons ③ to choose a function. Then press the ◄/► buttons ③ to adjust the effect level.	
Display the sub menu of a function.	Press ▲/▼ buttons ③ to choose a function. Then press MENU/OK button ② to display the sub menu.	_

The following chart shows locations of functions in menus. In this manual, location of a function is described as follows:

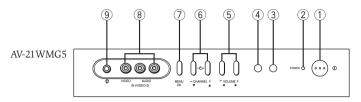
Note: Some functions have the 4th menus as the sub-menus.

\* To exit the menu, the on screen display will show BACK indicated in blue. But it doesn't refer to the blue button on the remote control. Instead, it refers to the DISPLAY/BACK button on the remote control.

	Top menu	2nd menu	Location	3rd menu	Location
MENU	INPUT	EXT. INPUT	P.12	-	-
		DISPLAY	P.12	-	-
	PICTURE	PICTURE MODE	P.8	-	-
	* If you want to adjust	PICTURE SETTING	P.8	-	-
	PICTURE	WHITE BALANCE	P.8	-	-
	SETTING	PICTURE FEATURES	-	VNR	P.12
	menu, you must set PICTURE			FAVORITE CH SETTING	P.11
	MODE menu to USER.			VIDEO SETTING	P.11
				COLOUR SYSTEM	P.8
	SOUND	AI VOLUME	P.10	-	-
	FEATURES	OFF TIMER	P.12	-	-
		CHILD LOCK	P.12	-	-
	INSTALL	AUTO PROGRAM	P.13	-	-
		EDIT/MANUAL	P.13	DELETE, MOVE, MANUAL, INSERT	P.13
		LANGUAGE	P.12	LANGUAGE	P.12
		BLUE BACK	P.9	-	-
		AUTO SHUTOFF	P.12	-	-
	EXIT	-	-	-	-

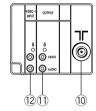
# **TV** buttons and functions

#### Front of the TV



#### Rear of the TV

AV-21WMG5



No	. Button/terminal	Description
1	① (main power)	Press to turn on or turn off the TV's main power.
2	Power lamp	Indicate the TV is being turned on or off.
		No colour : TV's main power is being turned off.
		Red : TV's main power is being turned on.
3	Not Application	
4	Remote control sensor	
(5)	VOLUME -/+	Press to adjust the volume level.
6	CHANNEL-/+	Press to select the desired channel.
7	MENU	Press to display the menu.
8	IN (VIDEO-2)	Video and audio input jacks for VIDEO-2 mode.
9	Ω	Headphone jack.
10	٦٢	Aerial socket.
11)	OUTPUT	Video and audio output jacks.
12	VIDEO-1 INPUT	Video and audio input jacks for VIDEO-1 mode.

#### How to operate the menus with the TV button

TV button	Work as same as the button on the remote control unit	Note
MENU	MENU/OK button	To display main menu and exit menu after finish setting.
CHANNEL -/+	▼/▲ button	To select menu function.
VOLUME -/+	<b>√/</b> ► button	To adjust the desired function.

## **Setting up your TV**

#### CAUTION

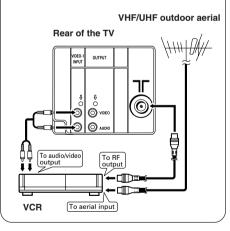
• Turn off the equipment including the TV before connecting.

# 1 Connecting the aerial Rear of the TV VHF/UHF outdoor aerial

**©** 

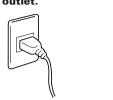
O VIDEO

If you connect a VCR, connect the aerial output jack of your VCR and the aerial jack on the TV with the aerial cable. Then connect the output jacks of your VCR and the VIDEO-1 input jacks of the TV with the video cable and audio cables. For details, see the manual of your VCR.



The illustration shown is just a sample. It may not be same as your TV.

# 2 Connecting the compatible main plug to the AC outlet.



# 3 Inserting batteries into the remote control.

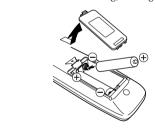
Insert two batteries by following the  $\bigoplus$  and  $\bigoplus$  polarities and inserting the  $\bigoplus$  end first.

#### **CAUTION:**

Follow the cautions printed on the batteries.

#### Motoc.

- Use AA/R6/UM-3 dry cell batteries.
- If the remote control does not work properly, fit new batteries. The supplied batteries are for testing, not regular use.

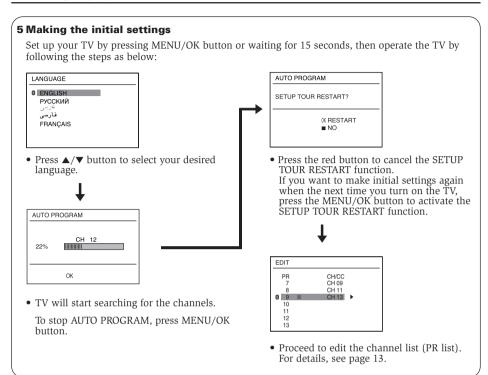


# 4 Turn on the TV by pressing the main power button.

JVC logo appears on the screen.



#### Setting up your TV (continued)



- If the JVC logo does not appear, use LANGUAGE and AUTO PROGRAM functions to make the initial settings.
  - Those functions are located in the INSTALL menu.
- If the JVC logo appears, although you had made the initial settings, press the TV/VIDEO button to exit from initial settings.

## **Basic setting for picture**

#### **COLOUR SYSTEM**

You can select the appropriate colour system when the picture is not clear or no colour appears.

Press the COLOUR SYSTEM button to select a setting.

To operate this function with a menu:

For the colour system in each country or region, see the table below:

Area	Country or Region	System
Asia, Middle	Bahrain, Kuwait, Oman, Qatar, United Arab Emirates, Yemen, etc. Indonesia, Malaysia, Singapore, Thailand, India, etc.	PAL
East	China, Vietnam, etc.	PAL
	Hong Kong, etc.	PAL
	Islamic Republic of Iran, Lebanon, Saudi Arabia, etc.	SECAM
	Philippines, Taiwan, Myanmar, etc.	NTSC
	Russia, etc.	SECAM
Europe	Czech Republic, Poland, etc.	PAL
Lurope	Germany, Holland, Belgium, etc.	PAL
	UK, etc.	PAL
Oceania	Australia, New Zealand, etc.	PAL
	Republic of South Africa, etc.	PAL
Africa	Nigeria, etc.	PAL
	Egypt, Morocco, etc.	SECAM

#### **PICTURE MODE**

You can choose the desired picture setting with one-touch.

Press the PICTURE MODE button to select a setting.

SOFT	Softens contrast and sharpness.
BRIGHT	Heightens contrast and sharpness.
STANDARD	Standard picture setting.
USER	You can change this picture setting as you like. Select USER and adjust following items in the PICTURE SETTING menu. (CONTRAST, BRIGHT, SHARP, COLOUR, TINT*)

<sup>\*</sup>TINT can only be adjusted in NTSC system.

To operate this function with a menu:

To return the USER setting to the default, press the blue button when the PICTURE SETTING menu appears.

#### Adjusting the picture - USER

You can adjust the desired picture setting when selecting USER in PICTURE MODE.

- 1 Select the USER in PICTURE MODE under PICTURE menu.
  - \* MENU PICTURE PICTURE MODE USER
- 2 Select the PICTURE SETTING in PICTURE menu, then adjust the setting.

CONTRAST	<b>◄</b> : Lower contrast	► : Higher contrast
BRIGHT	<b>■</b> : Darker	► : Brighter
SHARP	<b>◄</b> : Softer	► : Higher
COLOUR	<b>.</b> Lighter	►: Deeper
TINT*	<b>◄</b> : Reddish	► : Greenish

<sup>\*</sup>TINT can only be adjusted in NTSC system.

#### WHITE BALANCE

You can change the white balance of the picture to better match the type of video being viewed. Select the WHITE BALANCE in the PICTURE menu, then choose the desired setting.

★ MENU → PICTURE → WHITE BALANCE

NORMAL	Normal white balance.
COOL	Bluish white.
WARM	Reddish white.

\*About the basic operations of the menu, please see the "How to operate menus and menus locations" on page 4.

## **Advance setting for picture**

#### **BLUE BACK**

You can set the TV to automatically change to a blue screen and mute the sound if the signal is weak or absent, or when there is no input from an antenna.

Select the BLUE BACK in the INSTALL menu, then choose ON or OFF.

★ MENU → INSTALL → BLUE BACK

If you wish to continue viewing the poor picture, cancel the BLUE BACK function.

<sup>\*</sup>About the basic operations of the menu, please see the "How to operate menus and menus locations" on page 4.

# **Basic setting for sound**

#### **SOUND SYSTEM**

You can select an appropriate sound system when abnormal sound occurs even when the picture appears normally.

Press the SOUND SYSTEM button to select a setting.

$$\longrightarrow$$
 B/G  $\longrightarrow$  I  $\longrightarrow$  D/K  $\longrightarrow$  M  $\longrightarrow$ 

The function is not available in video mode. For the sound system in each country or region, see the table below:

Area	Country or Region	System
Asia, Middle	Bahrain, Kuwait, Oman, Qatar, United Arab Emirates, Yemen, etc. Indonesia, Malaysia, Singapore, Thailand, India, etc.	B/G
East	China, Vietnam, etc.	D/K
	Hong Kong, etc.	I
	Islamic Republic of Iran, Lebanon, Saudi Arabia, etc.	B/G
Philippines, Taiwan, Myanmar, etc.		M
	Russia, etc.	D/K
Europe	Czech Republic, Poland, etc.	D/K
Lurope	Germany, Holland, Belgium, etc.	B/G
	UK, etc.	I
Oceania Australia, New Zealand, etc.		B/G
	Republic of South Africa, etc.	I
Africa	Nigeria, etc.	B/G
	Egypt, Morocco, etc.	B/G

# **Advanced setting for sound**

#### AI VOLUME

You can adjust the volume of all the channels and video inputs to the same level automatically. Select the AI VOLUME in SOUND menu, then choose ON or OFF.

\* MENU SOUND AI VOLUME

<sup>\*</sup>About the basic operations of the menu, please see the "How to operate menus and menus locations" on page 4.

# Favorite channel and video setting

#### To register the favorite channel

You can register and recall 4 favorite channels by using the colour buttons (red, green, yellow, blue).

- 1 In TV mode, select a TV channel (PR01-99) you desired to register.
- 2 Press and hold a colour button for 3 seconds or more.
  - "FAVORITE CHANNEL PROGRAMMED!" appears on the screen and current channel is registered.
- **3** To register other favorite channels, repeat Step 1 to 2.

To recall the favorite channel, press the colour button.

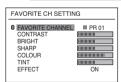
When the TV is in menu mode, favorite channel function is not available.

# To adjust favorite channel setting (FAVORITE CH SETTING)

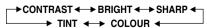
You can adjust the picture settings for the favorite channels.

- 1 Display the PICTURE menu and select FAVORITE CH SETTING in PICTURE FEATURES menu.
  - ★ MENU → PICTURE → PICTURE FEATURES
     → FAVORITE CH SETTING
- 2 Select FAVORITE CHANNEL in FAVORITE CH SETTING menu, then choose the desired favorite channel.
  - ★ FAVORITE CH SETTING

    → FAVORITE CHANNEL



- 3 Select EFFECT, then press 
  ✓/► button to choose ON.
  - To cancel the settings, choose OFF.
- **4** Select the desired item that you wish to adjust.



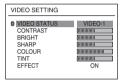
**5** Press the MENU/OK button to exit the menu.

# To adjust the video setting (VIDEO SETTING)

You can adjust the picture settings for video inputs.

- 1 Display the PICTURE menu and select VIDEO SETTING in PICTURE FEATURES menu.
  - ★ MENU → PICTURE → PICTURE FEATURES

     → VIDEO SETTING
- 2 Select VIDEO STATUS in VIDEO SETTING menu, then choose the desired video input.
  - ★ VIDEO SETTING → VIDEO STATUS



- 3 Select EFFECT, then press 
  √> button to choose ON. To cancel the settings, choose OFF.
- **4** Select the desired item that you wish to adjust.



5 Press the MENU/OK button to exit the menu.

\*About the basic operations of the menu, please see the "How to operate menus and menus locations" on page 4.

## **Customized setting**

#### **VNR**

You can reduce the picture noise.

Select the VNR in the PICTURE FEATURES menu under PICTURE menu, then choose a setting of VNR function.

OFF	VNR is turned off.
AUTO	Effect of VNR is automatically controlled.
MIN	Effect of VNR becomes minimum level.
MAX	Effect of VNR becomes maximum level.

If you select MAX, the picture becomes softer even if the original picture is sharp.

#### **LANGUAGE**

You can choose your desired on screen display language.

Select the LANGUAGE in the INSTALL menu, then choose a language.

#### **CHILD LOCK**

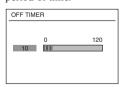
You can disable the front control buttons of the TV

Select the CHILD LOCK in the FEATURES menu, then choose ON or OFF.

#### **OFF TIMER**

You can set the TV to turn off automatically to standby mode after a set time.

Press the OFF TIMER button to select a desired period of time.



You can set the period of time to a maximum of 120 minutes in 10 minutes step.

To operate this function with a menu:

When the elapsed of time left one minute, "GOOD NIGHT!" appears on the screen. You can display the OFF TIMER menu again to confirm or change the remaining time.

#### **AUTO SHUTOFF**

You can set the TV to turn off automatically when no signal is received for about 15 minutes or longer after the end of a broadcast. Select AUTO SHUTOFF in INSTALL menu, then choose ON or OFF.

The AUTO SHUTOFF function does not turn off the TV's main power.

The AUTO SHUTOFF function is not available in video mode.

#### **EXT. INPUT (TV/ VIDEO)**

You can select TV or video terminal input with one touch.

Press the TV/VIDEO button to select an input.

To operate this function with a menu:

#### **DISPLAY**

You can display the programme number, video terminal number and PR list on the screen. Press the DISPLAY button to display the information on screen.

To operate this function with a menu:

\*About the basic operations of the menu, please see the "How to operate menus and menus locations" on page 4.

# TV channel presetting

# To register the TV channels automatically

You can register the TV channels into the TV's channel list automatically.

- 1 Display the INSTALL menu.
  - ★ MENU → INSTALL
- **2** Choose AUTO PROGRAM, then press the MENU/OK button.

AUTO PROGRAM function starts, and the channels received are registered in the channel list (PR list) automatically.

3 "SETUP TOUR RESTART?" appears.

To start the SETUP TOUR	Press the MENU/OK button. Then proceed to step 5 of "Setting up your TV" on page 7.
To skip the SETUP TOUR	Press the Red button.

4 The EDIT menu appears.

To edit the channel list	Proceed to the Step 3 of "To edit the channel list (PR list)" on this page.					
If a channel is not registered	Proceed to the Step 3 of "To register the channel manually" on this page.					
	D // MENULYOUT //					

To exit the menu Press the MENU/OK button. For details of "SETUP TOUR", see page 7.

# To register the TV channels manually (MANUAL in the EDIT menu)

You can register the TV channels into the TV's channel list manually.

- 1 Display the INSTALL menu.
  - ※ MENU → INSTALL
- **2** Choose EDIT/ MANUAL, then press the MENU/OK button. EDIT menu appears.

E	DIT				
1-					
	PR		CH/CC		
	7		CH 09		
	8		CH 11		
0	9		CH 13	•	
	10				
	11				
	12				
	13				

- 3 Choose the channel which you want to register.
- 4 Press the blue button to activate the MANUAL function.

The sound system of the channel appears at the right of the CH/CC number.

- 5 Press the ► button to choose an appropriate sound system.
  For details, see "SOUND SYSTEM" on
- page 10.

  6 Press the green or red button to search for
- the TV channel.

  Searching stops when a channel is found and displayed.
- 7 Repeat step 5 until your desired TV channel appears.

If the reception is poor	Press the blue or yellow button to fine tune the TV channel.
If noisy sound	Press the ► button to choose
is heard	an appropriate sound system.

8 Press the MENU/OK button to exit the menu.

# To edit the channel list (PR LIST) (MOVE and DELETE in the EDIT menu)

You can edit the TV channel list as you like. **Note:** After this operation, other channel's PR numbers will be changed.

- 1 Display the INSTALL menu.
  - **\*** MENU→INSTALL
- **2** Choose EDIT/ MANUAL, then press the MENU/OK button. EDIT menu appears.

EDIT	
PR 7 8 0 9 10	CH/CC CH 09 CH 11 CH 13 ▶
11 12 13	

- **3** Choose the channel which you want to change PR number, or delete.
- 4 Do the following action:

To change the	Press the ► button. Then move
PR number	it to the PR number you want
(MOVE)	to use it for the channel.
	Finally press the <b>◄</b> button.
To delete the	Press the yellow button.
channel (DELET	F)

- **5** Press the MENU/OK button to exit the menu.
- \*About the basic operations of the menu, please see the "How to operate menus and menus locations" on page 4.

#### TV channel presetting

# To add in the new channel (INSERT in the EDIT menu)

You can add in the new channel in the TV channel list as you like.

You need to find the "CH/CC" number for the TV channel. Find the "CH/CC" number corresponding to the channel number of the TV channel from the attached sheet "CH/CC number list" on this page.

- 1 Display the INSTALL menu.
- ★ MENU → INSTALL
- **2** Choose EDIT/ MANUAL, then press the MENU/OK button. EDIT menu appears.
- 3 Choose the PR number for which you will register a new TV channel. When you add a new TV channel of NTSC-M system, press the SOUND SYSTEM button to change the sound system to M. Then proceed to the next step.
- **4** Press the green button, then press **△**/▼ buttons to choose "CC" or "CH".
- **5** Press the number button to enter the remaining CH/CC number.

  The TV starts to search the TV channel, and the picture of the TV channel appears. If the TV finds no TV channel, a noisy picture appears.

When a TV channel has already been registered in PR99, using the INSERT function deletes that TV channel.

\*About the basic operations of the menu, please see the "How to operate menus and menus locations" on page 4.

#### CH/CC number

When you want to use the INSERT function by the previous operation, find the CH/CC number corresponding to the channel number of the TV channel from this table.

Channel No.	Country
US	United States, Philippines, etc
CCIR	Middle East, Southeast Asia, etc
OIRT	Eastern Europe, Russia, Vietnam, etc
AUSTRALIA	Australia, etc

#### Channel

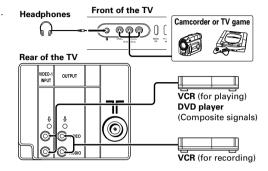
CH	US	CCIR	OIRT	AUSTRALIA	CH	US	CCIR	OIRT	AUSTRALIA
CH 02	US- 2	E2	R1	AU- 0	CH 36	US- 36, W+ 51	E36		
CH 03	US-3	E3		AU- 1	CH 37	US- 37, W+ 52	E37		
CH 04	US-4	E4	R2	AU- 2	CH 38	US- 38, W+ 53	E38		
CH 05	US-5	E5	R6	AU- 6	CH 39	US- 39, W+ 54	E39		
CH 06	US-6	E6	R7	AU- 7	CH 40	US- 40, W+ 55	E40		
CH 07	US-7	E7	R8	AU-8		US- 41, W+ 56			
CH 08	US-8	E8	R9	AU- 9	CH 42	US- 42, W+ 57	E42		
CH 09	US-9	E9				US- 43, W+ 58			
CH 10	US- 10	E10	R10	AU- 10	CH 44	US- 44, W+ 59			
CH 11	US- 11	E11	R11	AU- 11	CH 45	US- 45, W+ 60	E45		
CH 12	US- 12	E12	R12		CH 46	US- 46, W+ 61	E46		
CH 13	US- 13					US- 47, W+ 62			
CH 14	US- 14, W+ 29				CH 48	US- 48, W+ 63	E48		
CH 15	US- 15, W+ 30				CH 49	US- 49, W+ 64	E49		
	US- 16, W+ 31					US- 50, W+ 65			
	US- 17, W+ 32				CH 51	US- 51, W+ 66	E51		
	US- 18, W+ 33					US- 52, W+ 67			
CH 19	US- 19, W+ 34				CH 53	US- 53, W+ 68	E53		
CH 20	US- 20, W+ 35				CH 54	US- 54, W+ 69	E54		
	US- 21, W+ 36					US- 55, W+ 70			
	US- 22, W+ 37					US- 56, W+ 71			
	US- 23, W+ 38					US- 57, W+ 72			
	US- 24, W+ 39					US- 58, W+ 73			
	US- 25, W+ 40					US- 59, W+ 74			
	US- 26, W+ 41					US- 60, W+ 75			
	US- 27, W+ 42					US- 61, W+ 76			
	US- 28, W+ 43					US- 62, W+ 77			
CH 29	US- 29, W+ 44	E29			CH 63	US- 63, W+ 78	E63		
CH 30	US- 30, W+ 45	E30			CH 64	US- 64, W+ 79	E64		
CH 31	US- 31, W+ 46					US- 65, W+ 80			
CH 32	US- 32, W+ 47	E32			CH 66	US- 66, W+ 81	E66		
CH 33	US- 33, W+ 48	E33			CH 67	US- 67, W+ 82	E67		
	US- 34, W+ 49					US- 68, W+ 83			
CH 35	US- 35, W+ 50	E35			CH 69	US- 69, W+ 84	E69		

CC	US	CCIR	OIRT	AUSTRALIA	CC	US	CCIR	OIRT	AUSTRALIA
CC 01		S- 1		AU- 5	CC 38	W+ 2	S- 38		
CC 02		S- 2			CC 39	W+ 3	S- 39		
CC 03		S- 3			CC 40	W+ 4	S- 40		
CC 04		S- 4			CC 41	W+ 5	S- 41		
CC 05		S- 5			CC42	W+ 6			
CC 06		S- 6		AU- 5A	CC 43	W+ 7			
CC 07		S-7			CC 44	W+ 8			
CC 08		S- 8			CC 45	W+ 9			
CC 09		S- 9			CC 46	W+ 10			
CC 10		S- 10			CC 47	W+ 11			
CC 11		S- 11			CC 48	W+ 12			
CC 12		S- 12			CC 49	W+ 13			
CC 13		S- 13			CC 50	W+ 14			
CC 14	A	S- 14			CC 51	W+ 15			
CC 15	В	S- 15			CC 52	W+ 16			
CC 16	С	S- 16			CC 53	W+ 17			
CC 17	D	S- 17			CC 54	W+ 18			
CC 18	E	S- 18			CC 55	W+ 19			
CC 19	F	S- 19			CC 56	W+ 20			
CC 20	G	S- 20			CC 57	W+ 21			
CC 21	Н	S- 21			CC 58	W+ 22			
CC 22	- 1	S- 22			CC 59	W+ 23			
CC 23	J	S- 23			CC 60	W+ 24			
CC 24	K	S- 24			CC 61	W+ 25			
CC 25	L	S- 25			CC 62	W+ 26			
CC 26	M	S- 26			CC 63	W+ 27			
CC 27	N	S- 27			CC 64	W+ 28			
CC 28	0	S- 28			CC 75		Х		
CC 29	P	S- 29			CC 76		Υ	R3	
CC 30	Q	S- 30			CC 77		Z	R4	AU-3
CC 31	R	S- 31			C 78		Z+ 1	R5	
CC 32	S	S- 32			CC 79		Z+ 2		AU-4
CC 33	T	S- 33			CC 95	A- 5			
CC 34	U	S- 34			CC 96	A- 4			
CC 35	V	S- 35			CC 97	A- 3			
CC 36	W	S- 36			CC 98	A- 2			
CC 37	W+ 1	S- 37			CC 99	A- 1			

# **Additional preparation**

#### Before connecting

- Read the manuals provided with the devices for the proper connection.
- Turn off all the devices including the TV.
- Note that connecting cables are not supplied.



# **Troubleshooting**

If a problem occurs when you are using the TV, check the following troubleshooting guide before calling for repair.

TV screen

No picture, no sound	Deactivate the BLUE BACK function if it is turned on.     Choose the appropriate sound system. Refer to "SOUND SYSTEM" on page 10.
Snowy picture	Check the aerial cable and its connection with the TV.
Stripes appear on the picture	<ul> <li>Interference occurs caused by other devices such as an amplifier, personal computer, or a hair drier. Move such devices away from your TV.</li> </ul>
Double-pictures (ghosting) occur	• Interference occurs caused by signal reflecting from mountains or building. Try to adjust the aerial's direction or use a better directionality antenna.
Poor picture	Choose the appropriate colour system. Refer to "COLOUR SYSTEM" on page 8. Adjust the COLOUR or BRIGHT setting. Refer to "Adjusting the picture - USER" on page 8.
White and bright still image look as if it were coloured	• Inevitable phenomenon due to the nature of the picture tube. This is not a malfunction.
Top of the image from software products or video tape is distorted	<ul> <li>This is due to the condition of the video signal whereby the image was not recorded properly.</li> <li>This is not a malfunction.</li> </ul>

remote control	The batteries may be exhausted. Replace with new batteries (see page 6). Ensure that you are operating the remote less than seven meters from the front of your TV.
Cannot operate the menus	Press TV/VIDEO button to return to TV mode and try operating the menus.
Cannot operate the front control buttons	Deactivate the CHILD LOCK function if it is turned on (see page 12).
TV is turned off suddenly	This may due to the AUTO SHUT OFF function is activated. Press the POWER button to turn on the TV.
Colour patches appear at the corner of the screen	This may due to the magnetized device such as a speaker near to your TV. Keep the device apart from your TV. Alternately, you can also use the magnetic- shielded speaker.
Image takes a short period to be displayed	Image required time to stabilize before display. This is not a malfunction.
TV may emitted crackling sound	This is due to a sudden change in temperature and it is not a malfunction. If the crackling sound is too frequent, request your service technician for inspection.
Feel a slight electric shock when touching the	This is due to the static electricity of the picture tube and it will not harm the human body. This is not a

malfunction.

## **Specifications**

#### TV RF systems

B/G, I, D/K, M

#### Colour systems

PAL, SECAM, NTSC 3.58 MHz, NTSC 4.43 MHz

#### Receiving channels

VHF low channel (VL), VHF high channel (VH), UHF channel (U) Receives cable channels in mid band, super band and hyper band.

#### **Power requirements**

AC 110 to 240 V, 50/60 Hz

#### Power consumption

63 W

#### External input / output

VIDEO-1: VIDEO input, AUDIO input VIDEO-2: VIDEO input, AUDIO input\*

(\*You can choose to connect one of AUDIO input jacks)

OUTPUT: VIDEO output, AUDIO output Headphone jack: stereo mini jack (3.5 mm diameter,

sound is monaural)

Design and specifications are subject to change without notice.

